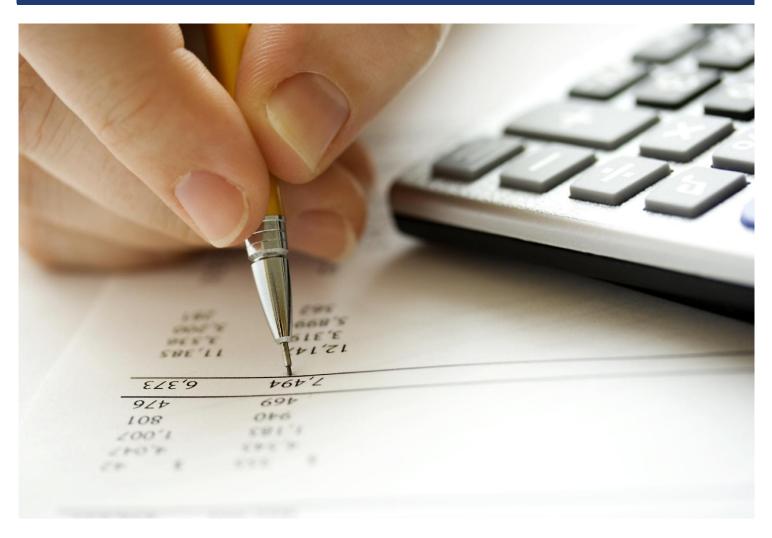
November 9, 2012

Attachment B

City of Rockville Pension Plan

Pension Plan Plan year beginning April 1, 2013 and ending March 31, 2014

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Contents

1 Executive Summary	1
2 Funding Calculations	4
3 Funding Projections	7
4 Asset Information	10
5 Data and Assumptions	13
Profiles of Active Population	15
Profiles of Inactive Population	.18
Plan Provisions	.20
Definitions	.26
Assumptions and Methods	27
Description of Actuarial Cost Method: Entry Age Normal	29

1. Executive Summary

Current Plan Year Costs (Fiscal Year 2014)

This report presents the results of our actuarial valuation of the City of Rockville Retirement Plan as of April 1, 2013, including the contribution required. Asset and census information was gathered as of April 1, 2012 and projected to April 1, 2013.

The projected Annual Required Contribution (ARC) for the City of Rockville Retirement Plan for fiscal year 2014 is \$4,212,438. The ARC is in addition to employee contributions and represents a minimum deposit level equaling the employer share of the normal cost plus the amortization of the unfunded liabilities as of March 30, 2014 over a twenty-year period.

Deposit Information

A summary of the results of the actuarial valuation is as follows:	
Total normal cost plus expense	\$ 2,418,913
Employee normal cost (expected employee contributions)	779,595
Employer normal cost	1,639,318
Total normal cost as a percentage of total member compensation	6.59 %
ARC	\$4,212,438
ARC as a percentage of total member compensation	11.48 %

Analysis

The ARC for the City of Rockville Defined Benefit Pension Plan decreased slightly in the 2013 plan year (fiscal 2014) to approximately \$4.2 million. The FY2014 ARC is \$0.1 million lower than the FY13 ARC due in part to lower than expected pay increases. The actuarial value of assets increased from last year due to the recognition of deferred gains from 2009, and 2010. (See page 11 for a full development of the actuarial value of assets.) Overall, the funded status of the plan increased from 71.7% to 75.6%.

Similar to plan reports in previous years, we have included a projection of the annual required contributions of the plan; similar to last year, the table has been expanded to show 5 projection years. This may be found beginning on page 7.

Changes from Prior Valuation

There have been slight changes in plan provisions since the prior valuation. The main change in the plan provisions is a change in the retirement eligibility for Administrative personnel and Union employees hired on or after July 1, 2011; the Normal Retirement Age for these employees is the first day of the month coinciding with or next following the later of an Employee's 65th

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birthday, and completion of 10 years of Credited Service. The Normal Retirement Age for all Administrative Personnel and Union Employees hired before July 1, 2011 is still the first day of the month coinciding with or next following the Employee's 60th birthday.

The early retirement date was also changed for Administrative and Union employees hired on or after July 1, 2011; for those employees hired after July 1, 2011, they must attain 58 years of age and 10 years of service for early retirement eligibility as opposed to 50 years of age and 10 years of service for personnel who were hired before July 1, 2011.

Also, the early retirement benefit was changed for Administrative personnel and Union employees hired on or after July 1, 2011. The early retirement benefit for those employees will be decreased by 3/8 of 1% for each month the Employee retires early. For Administrative personnel and Union employees hired before July 1, 2011, the early retirement benefit is decreased by ½ of 1% for each month the employee retires early.

Funding Method

The Entry-Age Normal Cost Method was used to determine liabilities and costs related to retirement, termination, disability and pre-retirement death benefits. The normal cost is calculated as a level annual funding cost from entry age to the expected decrement date.

The entry age normal cost method is used for this valuation. This method estimates the total cost of all projected plan benefits based on the assumptions shown in this report and the participant data supplied to us.

Costs are spread evenly from a member's date of hire to assumed retirement age. This annual cost is spread as a level percentage of compensation. The sum of each member's annual cost is the normal cost of the plan.

The value of calculated costs for past years is the actuarial accrued liability (AAL). Each year the unfunded actuarial liability (UAAL) is the AAL less the actuarial value of assets. A value less than zero represents a surplus.

The annual required contribution is equal to the normal cost of the plan, plus amortization of the plan's UAAL. Effective with this valuation the amortization periods will be fixed at 20 years, with separate amortization of increases or decreases in the UAAL over new 20-year periods.

Supplemental Employee Contributions

If the City contribution to the defined benefit plan on behalf of Administrative, Union and Police employees exceeds 6.5% of the earnings of those employees, the City may, at its discretion, impose a "Supplemental Employee Contribution" for the following year.

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The amount of the Supplemental Employee Contributions is limited to no more than 50% of the excess of the city contribution over 6.5% of the earnings of the Administrative, Union, and Police employees. See page 8 for the calculation of the Supplemental Employee Contribution.

2. Funding Calculations

Deposit Information

Normal Cost		
	Fiscal 2014 April 1, 2013	Fiscal 2013 April 1, 2012
Total normal cost	\$ 2,418,913	\$2,464,445
Employee normal cost (expected contributions from employees not yet eligible for normal retirement)	779,595	779,555
Employer normal cost	1,639,318	1,684,890
Total member compensation	36,707,187	36,902,817
Total normal cost as a percentage of member compensation	6.59%	6.68%
Annual Required Contributions		
Employer normal cost	\$ 1,639,318	\$ 1,684,890
Amortization amount	2,279,229	2,273,392
Valuation interest to the end of the plan year	293,891	296,871
Annual Required Contribution (ARC)	\$ 4,212,438	\$ 4,255,153
ARC as percentage of total member compensation	11.48%	11.53%

The ARC represents the employer contribution to the plan and is in addition to employee contributions. The member compensation includes expected salary growth during the fiscal year.

Development of Normal Cost

The normal cost is the portion of cost assigned to each year. Under the entry age normal cost method used in this valuation, each member's annual cost is calculated as described in the Assumptions and Methods section. The sum of the annual costs for all members plus an estimate of plan expenses to be paid from the fund is the total normal cost for each year.

a) Normal cost for Administrative Personnel and Union	\$ 1,637,716
b) Normal cost for Police	615,142
c) Estimated expenses	166,055
d) Total normal cost (a+b+c)	\$ 2,418,913

Unfunded Actuarial Accrued Liability

a) Unfunded actuarial liability (as of 4/01/2012)	\$ 24,914,281
b) Changes made during the plan year	1,624,202
c) Employer normal cost (as of 4/01/2012)	1,684,890
d) Interest on the above items	1,707,514
e) Total $(a+b+c+d)$	29,930,887
f) Employer contributions	4,255,153
g) Interest on employer contribution	159,568
h) Total (f+g)	4,414,721
i) Expected unfunded actuarial accrued liability	
(as of 4/01/2013) (e-h)	25,516,166
j) Actuarial accrued liability	92,843,559
k) Actuarial value of assets	70,144,540
l) Actual unfunded actuarial accrued liability (as of 4/01/2013)	22,699,019
m) Actuarial (gain) or loss	
(actual less expected unfunded actuarial accrued liability) (l-i)	\$ (2,817,147)

Schedule of Amortization Bases

The City's cost method allocates a portion of plan funding to be amortized in equal annual installments, in addition to the normal cost. The period over which the bases can be amortized is described in the laws and/or regulations.

Date Created	Reason	Remaining Period (Years)	Current Unfunded Balance	Minimum Annual Amortization
4/01/2013	Unfunded Actuarial Accrued Liability	20	\$ 22,699,019	\$ 2,279,000

Benefits Index Option

As of March 31, 2012, there was a group of 82 retirees and beneficiaries under the Benefits Index Option with Principal. The City of Rockville is required to maintain a minimum level of assets with Principal; otherwise these employees will be annuitized at current market costs. The benefits due to these retirees are paid from the Principal accounts.

If the Benefit Index Option retirees had been converted to annuities on March 31, 2012, the liability would increase from \$9.30 million to \$12.72 million. The increase is mainly due to the low interest rate environment in the annuity market.

Principal requires that the funds exceed the annuitized value of the retiree benefits. They determine the amount needed to cover the Benefits Index retirees through a two step formula. First, they increase the annuitized liability by 10% as part of a threshold test. Next they take into consideration the volatility of the assets classes and come up with a weighted volatility factor that is used to increase the amount of funds needed to cover the retiree payments.

On March 31, 2012, the funds with Principal were invested in the following manner and with the following assumed volatility factors:

		Volatility
Principal Fund Name	Balance	<u>Factor</u>
Money Market	\$25	0.95
Inflation Protection	\$6,216,555	0.95
Bond and Mtg	\$14,211,965	0.95
Large Cap S&P 500 Index	\$12,227,062	0.75
Diversified Intl	\$16,481,582	0.60
Total	\$49,137,189	0.7828

The weighted average volatility factor is divided into the increased annuitized liability to derive the Benefit Index as of a particular date. As of March 31, 2012, the Benefits Index equaled approximately \$17.88 million (i.e., \$12.72 x 1.1 / 0.7828). With over \$49 million invested with Principal, the Benefit Index is easily covered.

It is important to note that the volatility factors have a significant impact on the high level of assets required to be held by Principal. If all of the Principal funds were invested in the Bond fund, or the inflation Protection fund, which have the least volatility, then the Benefit Index would decrease from \$17.88 million required to \$14.73 million required.

3. Funding Projections

Annual Required Contribution Projections

As part of the actuarial valuation, we have projected contribution estimates for 5 years into the future based on the current year results. These estimates utilize the same assumptions and census data as of 4/01/2012. Additionally, asset returns are assumed to be 7.50% for all future years.

Any deviation in assumption, census demographics, or asset performance would impact these approximations.

	FY 2014 April 1, 2013	FY 2015 (\$ in millions)	FY 2016 (\$ in millions)	FY 2017 (\$ in millions)	FY 2018 (\$ in millions)	FY 2019 (\$ in millions)
Interest Rate	7.50 %	7.50 %	7.50 %	7.50 %	7.50 %	7.50 %
Return on Market Assets		7.50 %	7.50 %	7.50 %	7.50 %	7.50 %
Actuarial Accrued Liability	\$92,843,559	97.12	101.50	105.94	110.48	115.48
Actuarial Value of Assets	70,144,540	78.51	85.02	90.82	97.27	104.25
Unfunded Liability	22,699,019	18.61	16.48	15.12	13.21	11.23
Funded Ratio	75.6%	80.8%	83.8%	85.7%	88.0%	90.3%
Amortization of Unfunded	\$2,279,229	1.92	1.75	1.65	1.50	1.32
Employer Normal Cost	1,639,318	1.74	1.84	1.96	2.07	2.20
Interest	293,891	0.27	0.27	0.27	0.27	0.26
ARC	\$4,212,438	3.93	3.86	3.88	3.84	3.78

Supplemental Employee Contribution Projections

As documented in the provisions of the plan, the City of Rockville maintains the right to enforce a Supplemental Employee Contribution as it pertains to the defined benefit portion of the pension plan. Specifically, as of any April 1, if the City contribution to the Defined Benefit Option of the plan made on behalf of employees exceeds 6.50% of the earnings of the employees, then the City reserves the right to impose a Supplemental Employee Contribution for the following fiscal year.

This Supplemental Employee Contribution can be no more than 50% of the excess of the City contribution over 6.50% of earnings for employees. Such a contribution would be treated as a contribution to the Defined Benefit Option. The following table represents the calculation of the current Supplement Employee Contribution plus 5 projection years.

Administrative and Union Employees

	FY 2014 April 1, 2013	FY 2015 (\$ in millions)	FY 2016 (\$ in millions)	FY 2017 (\$ in millions)	FY 2018 (\$ in millions)	FY 2019 (\$ in millions)
Admin compensation	\$27,450,548	29.37	31.43	33.63	35.98	38.50
Union compensation	4,812,755	5.15	5.51	5.90	6.31	6.75
Total subgroup compensation	32,263,303	34.52	36.94	39.53	42.29	45.25
Total ARC	\$4,212,438	3.93	3.86	3.88	3.84	3.78
Admin and Union ARC	3,593,505	3.35	3.29	3.31	3.28	3.23
ARC as a % of compensation	11.14%	9.70%	8.91%	8.37%	7.76%	7.14%
Excess over 6.5%	4.64%	3.20%	2.41%	1.87%	1.26%	0.64%
50% of excess	2.32%	1.60%	1.20%	0.94%	0.63%	0.32%
Maximum Supplemental Employee Contribution	\$748,509	0.55	0.44	0.37	0.27	0.14
Police Employees						
	FY 2014 April 1, 2013	FY 2015 (\$ in millions)	FY 2016 (\$ in millions)	FY 2017 (\$ in millions)	FY 2018 (\$ in millions)	FY 2019 (\$ in millions)
Police compensation	\$4,779,028	5.11	5.47	5.85	6.26	6.70
Total ARC	\$4,212,438	3.93	3.86	3.88	3.84	3.78
Police ARC	618,933	0.58	0.57	0.57	0.56	0.55
ARC as a % of compensation	12.95%	11.26%	10.42%	9.72%	8.94%	8.23%
Excess over 6.5%	6.45%	4.76%	3.92%	3.22%	2.44%	1.73%
50% of excess	3.23%	2.38%	1.96%	1.61%	1.22%	0.87%
Maximum Supplemental Employee Contribution	\$154,363	0.12	0.11	0.09	0.08	0.06

Employer Thrift Plan Matching Contributions Projections

For both Union and Administrative Personnel enrolled in the Thrift Plan, employees can contribute 1%, 2%, 3%, 4%, or 5% of earnings to the Thrift Plan. For each \$1.00 contributed by a member, the City of Rockville contributes \$0.50 to the plan.

While this valuation only reflects the Defined Benefit Plan portion of liabilities, we are able to estimate the cash outlay of the City's matching contribution to the Thrift Plan based on current census data, pay information, salary scale assumptions, and employee contribution percentages.

	Fiscal 2013 April 1, 2012	Fiscal 2014 April 1, 2013	Fiscal 2015 April 1, 2014
	April 1, 2012	April 1, 2013	April 1, 2014
Total Thrift Plan Pay Only	\$ 27,539,799	\$ 28,710,240	\$ 29,930,000
Employee Contribution to Thrift Plan	1,184,000	1,234,000	1,286,000
City Matching Contribution to Thrift Plan	592,000	617,000	643,000

Allocation of 2013 Plan Year Contribution (Fiscal 2014)

	Admin and Union	Police	Total
2013 employer normal cost	\$ 1,398,453	\$ 240,865	\$ 1,639,318
Allocation percentage	85.307%	14.693%	100.000%
Allocated Annual Required Contribution	\$ 3,593,504	\$ 618,934	\$ 4,212,438
Total annual member compensation	\$32,263,303	\$ 4,779,028	\$ 37,042,331
Allocated ARC as a percentage of compensation	11.14%	12.95%	11.37%
Discretionary Supplemental Contribution for next year	\$ 748,509	\$ 154,363	\$ 902,872

4. Asset Information

Plan Assets are measured at the beginning of each plan year. Both the projected market value and actuarial value for the 2012 plan year (fiscal 2013) are shown below. Actuarial value of assets is used for all funding calculations. The derivation of the Actuarial Value of assets is on the following page and identifies the reason for any difference between Market Value and Actuarial Value in the Methods Selected by Plan Sponsor section of Assumptions and Methods.

The actuarial value of plan assets as of March 31, 2012 is \$62,039,361. The market value of assets as of March 31, 2012 is \$66,581,601.

The actuarial value of assets smoothes investment gains and losses over five years at 20 percent per year. The asset valuation method changed two years ago and is not fully phased in. For this purpose, a gain or loss is the difference between the actual return and the expected long-term investment return (currently 7.50 percent). Any future gains or losses are also recognized over five years. After the method is in place in its fifth year, the asset value recognizes 20 percent of the current year's gain or loss and 20 percent of each of the prior four years of gains and losses. By combining five years of gains and losses, the asset fluctuations are dampened from experiencing drastic upward and downward swings in value. 80% of the 2012 gains, 60% of the 2011 gains, 40% of the 2010 gains, 25% of the 2009 losses are deferred to future years. A full development of this value can be found on the following page.

Deve	lopment of Actuarial Value of Assets	
(1)	Actuarial value of assets as of 4/01/11	\$ 56,972,192
(2)	Contributions	
(a)	Employer contributions	\$3,563,104
(b)	Employer receivable (from prior year)	\$3,478,242
(c)	Employee contributions	786,708
(3)	Benefit payments & expenses	(3,648,607)
(4)	Interest on (1), (2a), (2b), (2c) and (3) at 7.50%	<u>4,429,644</u>
(5)	Expected actuarial value of assets as of 4/01/12	\$ 65,581,283
(6)	Market value of assets as of 4/01/12	\$ 66,581,601
(7)	Development of amount of difference to be amortized	
(a)	Unrecognized amount from 4/01/09 25% x 2009 Total (see chart below)	(5,862,873)
(b)	Unrecognized amount from 4/01/10 60% x 2010 Total (see chart below)	5,853,370
(c)	Unrecognized amount from 4/01/11 80% x 2011 Total (see chart below)	3,357,274
(d)	Difference between expected actuarial value and market value $4/01/12$ (6) - (5) - (7a) - (7b) - (7c)	\$(2,347,454)
(8)	Unrecognized market value 4/01/12 (see chart below)	\$4,542,241
(9)	Actuarial Value of assets $4/01/12$ (6) – (8)	\$62,039,361
(10)	Employer contributions receivable after 4/01/12	0
(11)	Adjusted Actuarial value of assets as of 4/01/12 (9) + (10)	\$62,039,361

Allocation of Defer	red Gains and (Losse	\mathbf{s})				
		Plan Yo	ear			
Allocation Year	2009	2010	2011	2012		
2009	\$ (5,862,872)					
2010	(5,862,872)	\$ 1,951, 123				
2011	(5,862,872)	1,951, 123	\$ 839,318			
2012	(5,862,873)	1,951, 123	839,318	\$(469,490)		
2013		1,951, 124	839,318	(469,491)		
2014		1,951, 124	839,319	(469,491)		
2015			839,319	(469,491)		
2016				(469,491)		
Total	\$ (23,451,489)	\$ 9,755,617	\$ 4,196,592	\$ (2,347,454)		
Deferred	\$ 0	\$ 3,902,248	\$ 2,517,956	\$ (1,877,964)		
Unrecognized Marko	Unrecognized Market Value (sum of Deferred row above)					

Historical Investment Returns

The following table represents the investment returns by calendar year since February 1, 2002. Also presented are the compounded returns for the last 1 through 10 years.

	Approximate Rate of Return	-	pounded Annual Return ast "n" Years
Calendar Year Ended	Market Value	"n"	Market Value
December 31, 2011	0.2%	1	0.2%
December 31, 2010	16.2%	2	7.9%
December 31, 2009	16.4%	3	10.7%
December 31, 2008	-31.8%	4	-1.9%
December 31, 2007	6.7%	5	-0.3%
December 31, 2006	13.7%	6	1.9%
December 31, 2005	6.8%	7	2.6%
December 31, 2004	10.4%	8	3.6%
December 31, 2003	17.5%	9	5.0%
December 31, 2002	-4.8%	10	4.0%

5. Data and Assumptions

Census Data

	4/01/2011	4/01/2012	Change				
Number of Covered Participants							
Actives	531	522	-9				
Terminated Vested	190	106	-84				
Retirees	184	198	+14				
Total	905	826	-79				
Average Age							
Actives	45.5	45.6	+0.1				
Terminated Vested	44.6	43.5	-1.1				
Retirees	69.3	69.5	+0.2				
All	50.2	50.2	+0.7				
Average Years of Service	ce						
Actives	10.7	11.1	+0.4				
Monthly Accrued Benef	fits						
Terminated Vested	\$30,128	\$38,245	26.9 %				
Retirees	256,790	277,230	+8.0 %				

Census Reconciliation

	Police	Admin DB	Admin TP	Union DB	Union TP	Total
Active Participants						
Count on 4/01/2011	57	33	334	1	106	531
New entrants	+2	+1	+25		+9	+37
Plan to plan transfer			+1		-1	0
Return to active status						0
Terminated, non-vested	-1		-7			-8
Terminated, vested			-21		-6	-27
Retired with annuity		-3	-10		-1	-11
Death						0
Count on 4/01/2012	58	31	325	1	107	522
Inactive Participants						
Count on 4/01/2011	11	5	158	1	14	190
Data corrections			+12		+11	+23
Return to active status						0
Retired with annuity		-1	-1		-1	-3
Terminated, lump sum	-9		-117		-2	-128
Terminated, vested			+21		+6	+27
Death			-1	-1		-2
Count on 4/01/2012	2	4	72	0	28	106
Retired Participants						
Count on 4/01/2011	7	90	60	23	4	184
New retired		+4	+11		+2	+17
Death/Fixed Period Ends		-2				-2
Beneficiary						0
Data Corrections		+1		-1	-2	-2
Count on 4/01/2012	7	93	71	22	4	197

Profiles of Active Population

Distribution of the Active Male Population by Age and Service Groups

Credited	Years o	f Service	as of	$^{c}April$	1, 2012

Age as of April 1, 2012	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total
24 and under	0	0	0	0	0	0	0	0
25 - 29	6	0	0	0	0	0	0	6
30 - 34	19	4	0	0	0	0	0	23
35 - 39	16	10	7	1	0	0	0	34
40 - 44	16	17	12	4	0	0	0	49
45 – 49	13	10	5	8	0	0	1	37
50 – 54	15	14	15	8	18	1	0	71
55 – 59	6	12	14	6	9	8	3	58
60 - 64	5	6	5	5	12	5	2	40
65 & over	2	2	2	6	4	2	6	24
Totals	98	75	64	40	43	16	15	351

Average Age: 45.46

Average Past Service: 11.44

Distribution of the Active Female Population by Age and Service Groups

Credited	Years of	f Service as	of April 1	. 2012
Ciconicon	10000	SCI FICE CIS	O, TIPIUI	,

Age as of April 1, 2012	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total
24 and under	0	1	0	0	0	0	0	1
25 – 29	11	3	0	0	0	0	0	14
30 - 34	11	6	3	0	0	0	0	20
35 - 39	11	5	4	0	0	0	0	20
40 - 44	5	9	2	0	0	0	0	16
45 – 49	4	7	4	5	5	1	0	26
50 - 54	6	8	7	0	7	4	2	34
55 – 59	2	2	8	2	3	1	2	20
60 - 64	0	3	5	1	2	0	3	14
65 & over	0	0	3	2	0	0	1	6
Totals	50	44	36	10	<u>17</u>	6	8	171

Average Age: 46.01

Average Past Service: 10.33

Distribution of the Active Population by Age and Service Groups

Credited Years of Service as of April 1, 2012

Age as of April 1, 2012	0-4	5-9	10-14	15-19	20-24	25-29	<i>30</i> +	Total
24 and under	6	1	0	0	0	0	0	7
25 – 29	30	7	0	0	0	0	0	37
30 - 34	27	16	10	1	0	0	0	54
35 – 39	27	22	16	4	0	0	0	69
40 - 44	18	19	7	8	0	0	1	53
45 – 49	19	21	19	13	23	2	0	97
50 – 54	12	20	21	6	16	12	5	92
55 – 59	7	8	13	7	15	6	4	60
60 - 64	2	5	7	7	6	2	9	38
65 & over	0	0	7	4	0	0	4	15
Totals	148	119	100	50	60	22	23	522

Average Age: 45.64

Average Past Service: 11.08

Profiles of Inactive Population

Distribution of Male Retirees and Beneficiaries

Age as of	M 1	Average Annual	Total Annual
April 1, 2012	Number	<u>Pension</u>	Pension
< 55	2	39,366	78,732
55 - 59	12	20,590	247,084
60 - 64	21	21,467	450,800
65 - 69	24	22,912	549,899
70 - 74	27	21,051	568,390
75 - 79	16	13,283	212,521
80 - 84	9	22,847	205,627
85 +	<u>3</u>	<u>9,495</u>	<u>28,484</u>
	114	\$20,540	\$2,341,537
	Avera	ge Age: 69.2	
	Average	Pension: \$20,540	

Distribution of Female Retirees and Beneficiaries

Age as of April 1, 2012	Number	Average Annual Pension	Total Annual Pension
< 55	6	7,023	42,139
55 – 59	7	18,120	126,837
60 - 64	13	13,692	177,991
65 - 69	17	13,575	230,782
70 - 74	8	11,764	94,109
75 – 79	17	10,873	184,844
80 - 84	11	9,148	100,631
85 +	<u>4</u>	6,974	27,894
	83	\$11,870	\$ 985,227
	Average A	Age: 70.0	
	Average l	Pension: \$11,870	

Distribution of All Retirees and Beneficiaries

Age as of April 1, 2012	Number	Average Annual Pension	Total Annual Pension
< 55	8	15,109	120,871
55 – 59	19	19,680	373,921
60 - 64	34	18,494	628,791
65 - 69	41	19,041	780,681
70 - 74	35	18,929	662,499
75 – 79	33	12,041	397,365
80 - 84	20	15,313	306,258
85 +	<u>7</u>	8,054	<u>56,378</u>
	197	\$ 16,887	\$ 3,326,764
	Average .	Age: 69.5	
	Average	Pension: \$16,887	

Plan Provisions

This report reflects the maximum benefit limits under Internal Revenue Code (IRC) Section 415 and maximum compensation limits under IRC Section 401 in effect on the first day of each plan year.

The following is a summary of plan provisions and does not alter the intent or meanings of the provisions contained in the contract or plan document. This report reflects the provisions of the plan effective through April 1, 2012.

Plan Eligibility		
	Defined Benefit Option	Thrift Plan Option
Administrative Personnel	Hired prior to 4/15/1986 and elected not to transfer to Thrift Plan	Hired prior to 4/15/1986 and elected to transfer from Defined Benefit Option or hired on or after 4/15/1986
Union Employees	Hired prior to 12/02/1986 and elected not to transfer to Thrift Plan	Hired prior to 12/02/1986 and elected to transfer from Defined Benefit Option or hired on or after 12/02/1986
Police Employees	All Police employees are eligible for the Defined Benefit Option only	N/A

Normal Retirement Benefit		
Form	All employees will receive a monthly annuity guaranteed for ten years and life thereafter. Optional forms may be elected in advance of retirement	
Age	Defined Benefit Option Thrift Plan Option	
Administrative Personnel and Union Employees	Hired prior to July 1, 2011: Attained at age 60 Hired on or after July 1, 2011: Attained age 60 and 10 years of credited service	Hired prior to July 1, 2011: Attained at age 60 Hired on or after July 1, 2011: Attained age 60 and 10 years of credited service
Police	Earlier of attained age 60 or 25 years of service	N/A

Normal Retirement Benefit		
Amount (accrued benefit)	Defined Benefit Option	Thrift Plan Option
Union Employees	1.8% of average earnings times credited service	i. 1.8 % of average earnings times credited service prior to 1/01/1987 ii. 1.0% of average earnings times credited service after 12/31/1986 iii. Actuarial equivalent of a lump sum payment of members Thrift Plan Option vested account balance. Member may elect a cash distribution or combination of cash and annuity
Administrative Personnel	The sum of (i) and (ii) i. 1.8 % of average earnings times credited service prior to 4/01/1996 ii. 2.0% of average earnings times credited service on or after 4/01/1996	i. 1.8 % of average earnings times credited service prior to 4/01/1986 ii. 1.0% of average earnings times credited service after 4/01/1986 and prior to 4/01/1996 iii. 1.2% of average earnings times credited service on or after 4/01/1996 iv. Actuarial equivalent of a lump sum payment of members Thrift Plan Option vested account balance. Member may elect a cash distribution or combination of cash and annuity

Normal Retirement Benefit		
Amount (accrued benefit)	Defined Benefit Option	Thrift Plan Option
Police Employees	i. 2.0% of average earnings times credited service up to 4/01/2004, plus 2.25% of average earnings times credited service on or after 4/01/2004 ii. 67.5% of average earnings	

Early Retirement Benefit		
Age	Hired prior to July 1, 2011: Attained age 50 Hired on or after July 1, 2011: Attained age 58	
Service	Ten years of credited service	
Form	Same as normal retirement benefit	
Amount	Accrued benefit on early retirement date reduced to reflect that payments begin prior to normal retirement date	
Reduction Factors:		
Administrative Personnel and Union Employees	Hired prior to July 1, 2011: 1/4 of 1% for each month the benefit commences prior to normal retirement date. Hired on or after July 1, 2011: 3/8 of 1% for each month the benefit commences prior to normal retirement date.	
Police	6/10 of 1% for each month during the first sixty months and 3/10 of 1% for each month during the next sixty months the benefit commences prior to normal retirement date	

Late Retirement Benefit		
Age	No maximum age	
Form	Same as normal retirement benefit	
Amount	Accrued benefit on late retirement date	

Deferred Vested Benefit		
Eligibility	Termination of employment after ten years of credited service	
Form	Same as normal retirement benefit with income deferred until normal retirement date	
Amount	Accrued benefit as date of termination In lieu of receiving a retirement benefit, an employee may elect to receive a lump sum payment equal to that which the employee would have received under the Termination Benefit below	

Termination Benefit		
	Defined Benefit Option	Thrift Plan Option
Eligibility	Termination of employment prior to early or normal retirement date and before completing ten years of credited service	Termination of employment prior to early or normal retirement date and before completing seven years of credited service
Form	Lump sum payment	Lump sum payment
Amount	The sum of (i) and (ii): i. Employee contributions plus interest ii. A portion of the City's contributions plus credited interest according to the following schedule: Years of Percent of City Credited Service Share Earned Less than 5 0% 5 50% 6 60% 7 70% 8 80% 9 90% 10 and over 100% City contributions are deemed to be 150% of the employee's contributions plus interest	Vested account balance

Survivor Annuity Death Benefit		
Eligibility	Qualified married participant with ten years of credited service	
Form	Monthly annuity payable to spouse, deferred to participant's earliest retirement date if later than the date of death	
Amount	If death occurs, the amount paid to the surviving spouse is equal to the amount that would have been paid had the participant terminated employment on the date of death and survived to his/her earliest retirement age, retired with a qualified joint and 50% survivor annuity in effect, then died the next day	

Lump Sum Death Benefit		
Eligibility	Not eligible for the Survivor Annuity Death Benefit described above	
Form	Lump sum payment to beneficiary	
	Defined Benefit Option Thrift Plan Option	
	Employee contributions plus	Vested account balance
	credited interest	
	In lieu of any other death benefit,	
Amount	the deceased employees' beneficiary	
	may elect to receive a lump sum	
	payment equal to that which the	
	employee would have received	
under the Termination Benefit		
	described above	

Contributions		
	Defined Benefit Option	Thrift Plan Option
Union	4.2% of earnings plus 1/2 the excess (if any) of the City's contribution over 6.5% of earnings	1%, 2%, 3%, 4%, or 5% of earnings
Administrative Personnel	5.2% of earnings plus 1/2 the excess (if any) of the City's contribution over 6.5% of earnings	1.0% of earnings will be contributed to the Defined Benefit portion 1%, 2%, 3%, 4%, or 5% of earnings will be contributed to the Thrift Plan portion
Police	8.5% of earnings	N/A

Contributions		
	Defined Benefit Option	Thrift Plan Option
City	Remaining cost of plan	50 cents for each \$1.00 contributed by member. (Applies to Administrative Personnel and Union employees only.)
Interest on Employee	6.0% per year	In accordance with the terms of the
Contributions		investment contract

Vested Balance and Optional Forms							
	Defined Benefit Option Thrift Plan Option						
Vested Account	The sum of (i) and (ii):						
Balance							
	i. Employee contributions plus c						
		ble to City contributions with credited					
	interest in accordance with the	e following:					
	Years of Credited Service	Percent of City Share Earned					
	Less than 5	0%					
	5 50%						
	6 60%						
	7 70%						
	8 80%						
	9 90%						
	10 and over 100%						
Optional Forms of	The optional forms of benefit payments are:						
Benefit Payments							
	Monthly annuity payable for life, 10 years certain and life						
	 Monthly annuity payable as a survivorship life annuity with survivorship percentages of 50, 75, or 100 Single sum payment equal to the present value of the vested accrued retirement benefit 						

Cost of Living adjustment There is no cost-of-living increase for the April 1, 2012 valuation. Historically, there have been cost-of-living increases given to current retirees. There have been no cost-of-living increases since January 1, 2008.

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Definitions

Credited Service

For benefit accrual, an employee will receive Credited Service for each year of continuous service and a fraction of a year of service to the nearest full month, from the date he first enters the plan to the date he terminates or retires, whichever is earlier; provided he made the required contributions to the plan. An employee will not receive credited service during any period for which he is eligible to participate if he does not contribute to the plan.

Earnings

Salary of wage at an employee's basic rate of pay but excluding overtime payments, commissions, bonuses, and any other additional compensation but including longevity pay. After December 31, 2001, 401(a)(17) limits apply. No retroactive \$200,000 limit will apply for service on or after January 1, 2002.

Final Average Earnings

Administrative Personnel and Union Employees

Average annual earnings during the 36 consecutive months of the last 120 months of City employment (or, if shorter, the employee's actual period of employment) which produce the highest average.

Police

Average annual earnings during the final 60 months (or, if shorter, the employee's actual period of employment) of City employment.

Assumptions and Methods

There have been no changes in assumptions or plan provisions since the last valuation report, which was performed as of April 1, 2011 and projected to April 1, 2012 other than to reflect changes in maximum benefit limits under Intern Revenue Code (IRC) Section 415 and in maximum compensation limits under IRC Section 401.

Interest 7.50%

Mortality RP-2000 Combined Mortality Table, male and female, projected to 2005 with

scale AA. The table includes a margin for future improvement in life

expectancy.

Asset Method Gains and losses are spread over five years beginning 4/01/2010. This method

is being applied prospectively, so gains and losses prior to 2010 will continue

to be smoothed over four years until fully recognized.

Deposit After Plan

Year Ends

The Actuarial Value of Assets includes contributions for that fiscal year they were intended even if they were made after the end of the fiscal year.

Annual Required Contribution

Normal cost plus 20-year amortization of unfunded actuarial accrued liability with interest to the end of the plan year

with interest to the end of the plan year

Retirement Age

Upcoming Year Salary Increase

Normal Retirement Age as defined in the Plan Provisions

The salary is increased based on a combination of the rates determined from the experience study for plan years 2006-2010 plus increases specific to each benefit plan. The additional increases are 3.00% at each age for Thrift plan members, 2.50% at each age for Police members, and 2.00% at each age for Defined Benefit Plan members. Total annual increases are shown below at sample ages:

	Increases						
	Thrift						
Age	Plan	Police	DB Plan				
20	9.72%	8.97%	6.60%				
25	8.62%	7.88%	5.75%				
30	7.88%	7.16%	5.18%				
35	7.33%	6.62%	4.75%				
40	6.86%	6.16%	4.39%				
45	6.47%	5.77%	4.08%				
50	6.14%	5.45%	3.83%				
55	5.86%	5.17%	3.61%				

Expenses Deducted from the fund according to expenses in scales in Service

Agreement. The Normal Cost includes an estimated expense charge.

Disability 1987 Commissioner's Group Disability Table, six month elimination period,

male and female

Marriage 75% married; husbands are 3 years older than wives

Actuarial Cost Method Entry Age Normal

Cost of Living Increase

No explicit increase is assumed for future years

Withdrawal The rates below represent the service based withdrawal assumptions.

For employees with less than six year of service (excluding those in the Administrative and Union Defined Benefit Plans):

	Thrift &	Police
Service	DB Plans	Plan
0	.120	.200
1	.110	.200
5	.080	.040
10	.040	.010
15	.035	.010
25	.025	.000

Retirees

Assets and liabilities for retirees whose benefits are not guaranteed by the Principal Insurance Company contract are included in the valuation.

Description of Actuarial Cost Method: Entry Age Normal

Cost Methods

A cost method is a budgeting tool. It helps to ensure that your pension plan is adequately and systematically funded. Cost methods differ based on how they assign an annual cost to the current year and how they treat gains and losses.

Normal Cost

The portion of cost assigned to each year is called the normal cost. The normal cost may be shared by the employer and the employees based on plan provisions.

Entry Age Normal

The entry age normal cost method is used for valuation. This method estimates the total cost of all projected plan benefits based on the assumptions shown in this report and participant data you have supplied.

Costs are spread evenly from a member's date of hire to assumed retirement age. This annual cost spread as level percentage of compensation if benefits are salary related or as a level dollar amount if not salary related. The sum of each member's annual cost is the normal cost.

There are some accumulated costs for past years. The value of these past costs is the actuarial accrued liability (AAL). Each year the unfunded actuarial accrued liability (UAAL) is the AAL less the actuarial value of assets, but not less than zero. The UAAL is adjusted when there are plan or assumption changes (a liability base is created).

Actuarial Gains/Losses

An actuarial gain or loss occurs when actuarial plan experience differs from what was assumed. The actuarial gain or loss is calculated separately but the total UAAL is amortized over 20 years each year in accordance with the City's funding policy.

Actuarial Certification

To the best of our knowledge, this report is complete and accurate and all costs and liabilities have been determined in conformance with generally accepted actuarial principles and on the basis of actuarial assumptions and methods which are reasonable (taking into account past experience under the Plan and reasonable expectations) and which in combination represent our best estimate of anticipated experience under the plan.

The results shown in this report are reasonable actuarial results. However, a different set of results could also be considered reasonable actuarial results. The reason for this is that actuarial standards of practice describe a "best-estimate range" for each assumption, rather than a single best-estimate value. Thus, reasonable results differing from those presented in this report could have been developed by selecting different points within the best-estimate ranges for various assumptions.

The actuaries certifying to this valuation are members of the Society of Actuaries or other professional actuarial organizations, and meet the General Qualification Standards of the American Academy of Actuaries for purposes of issuing Statements of Actuarial Opinion.

Adam I Reese

Fellow of the Society of Actuaries Member of the American Academy of

Actuaries

Fellow of the Conference of Consulting

Actuaries

Enrolled Actuary No. 11-4303

Hay Group

November 9, 2012

Craig R. Graby

Member of the American Academy of

Actuaries

Fellow of the Conference of Consulting

Actuaries

Enrolled Actuary No. 11-7319

Estimated cost of 1% Cost of Living increase to current retirees

	04/01/2013 Valuation	04/01/2013 with 1% Cost of Living
Administrative and Union Group		
Accrued Liability		
Participants in pay status	\$ 27,605,557	\$ 27,881,612
Inactive participants	4,527,764	4,527,764
Active participants	42,583,245	42,583,245
Total	\$ 74,716,566	\$ 74,992,621
Change in Accrued Liability		\$ 276,056

Each 1% cost of living increase results in an additional \$ 276,056 of Accrued Liability for the Administrative and Union group.

	04/01/2013 Valuation	04/01/2013 with 1% Cost of Living	
Police Group			
Accrued Liability			
Participants in pay status	\$ 2,945,913	\$ 2,975,372	
Inactive participants	458,609	458,609	
Active participants	14,722,472	14,722,472	
Total	\$ 18,126,993	\$ 18,156,452	
Change in Accrued Liability		\$ 29,459	

Each 1% cost of living increase results in an additional \$29,459 of Accrued Liability for the Police group.

The above does not include the amount necessary to purchase a 1% cost of living increase for retirees at Hartford.

Accounting Information for SGAS 25/27

Ca	rry-forward of Net Pension Obligation						
a)	Annual required contribution for 2012 plan year	\$ 4,255,153					
b)	Interest on net pension obligation	(28,245)					
c)	Adjustment to annual required contribution	36,941					
d)	Annual pension cost for 2012 plan year (a+b+c)	4,263,849					
e)	Actual contributions made*	4,255,153					
f)	Increase/(decrease) in net pension obligation	8,696					
g)	2012 beginning of year net pension obligation	(376,599)					
h)	2012 end of year net pension obligation (367,903)						
	*Assumes contribution equals FY 2012 ARC; if the contribution is a different amount, this table will need to be modified						
An	nual Pension Cost for 2013 Plan Year						
a)	Normal cost with interest	1,762,267					
b)	Amortization with interest	2,450,171					
c)	Annual required contribution (a+b, not less than zero)	4,212,438					
d)	Interest on net pension obligation	(27,593)					
e)	Adjustment to annual required contribution	36,088					
f)	Annual pension cost (c+d+e)	\$ 4,220,934					

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Development of the Net Pension Obligation (NPO) (Asset)											
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(1)
									Loss/	Change in	
	Valuation	Amortized		Interest On	ARC	Amortization	ARC	Actual	(Gain)	NOP	NPO
Fiscal Year	Rate	Period	ARC	NPO	Adjustment	Factor	(d+e+f)	Deposit	(d-i)	(h-i)	Balance
2006	7.75 %	20	1,473,052	0	0	10.0035	1,473,052	1,473,052	0	0	0
2007	7.75 %	20	1,599,777	0	0	10.0035	1,599,777	1,599,777	0	0	0
2008	7.75 %	20	1,550,658	0	0	10.0035	1,550,658	1,550,658	0	0	0
2009	7.75 %	20	1,578,653	0	0	10.0035	1,578,653	1,981,817	(403,164)	(403,164)	(403,164)
2010	7.75 %	20	2,511,751	(31,245)	40,302	10.0035	2,520,808	2,511,751	0	9,057	(394,107)
2011	7.75 %	20	3,478,242	(30,543)	39,397	10.0035	3,487,096	3,478,242	0	8,854	(385,253)
2012	7.75 %	20	3,563,104	(29,857)	38,512	10.0035	3,571,759	3,563,104	0	8,655	(376,599)
2013	7.50%	20	4,255,153	(28,245)	36,941	10.1945	4,263,849	4,255,153*	0	8,696	(367,903)
2014	7.50%	20	4,212,438	(27,593)	36,088	10.1945	4,220,934	TBD	TBD	TBD	TBD

^{*} Assumes contribution equals FY 2013 ARC; if the contribution is a different amount, this table will need to be modified

Schedule of Funding Progress									
	(a)	(b)	(a-b)	(a/b)	(c)	(a-b)/c			
Actuarial Valuation Date April 1	Actuarial Value of Assets	Actuarial Accrued Liability (AAL) Entry Age	Funded (Unfunded) AAL	Funded Ratio	Covered Payroll	FAAL/ UAAL As a Percentage of Covered Payroll			
2006	54,487,954	58,873,284	(4,385,330)	92.6%	26,243,676	-16.7%			
2007	60,851,362	63,778,911	(2,927,549)	95.4%	25,923,304	-11.3%			
2008	63,868,591	66,853,253	(2,984,662)	95.5%	26,221,689	-11.4%			
2009	61,698,621	72,290,941	(10,592,320)	85.3%	31,708,344	-33.4%			
2010	59,550,874	79,275,687	(19,724,813)	75.1%	33,863,526	-58.2%			
2011	60,360,919	79,794,044	(19,433,125)	75.6%	33,384,756	-58.2%			
2012	62,039,361	88,577,844	(26,538,483)	70.0%	33,212,310	-79.9%			
2013	70,144,540	92,843,559	(22,699,019)	75.6%	34,557,409	-65.7%			